



## SPECIAL POINTS OF INTEREST:

- Pavement Management Program
- Wastewater Rehab
- Staff News
- Wastewater Certifications
- Good Earth Home Show Booth

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# Public Works Monthly Report

January 2015

## Parks and Open Space

### Team Behind WJ Skatepark + Urban Plaza Honored

Congratulations to the team who brought the vision of the WJ Skatepark + Urban Plaza to life on being honored at the Mayor's 2014 State of the City address. The effort included staff from parks, recreation, engineering, facilities, police, cultural and central services. Pictured from left to right are POS Community Engagement Manager **Carrie**

**Peterson**, Mayor **Piercy**, Recreation Youth and Family Section Manager **Sandy Shaffer**, PW

Engineering East Team Design Construction

Landscape Architect **Adam Steffen**, and POS Park Planning, Acquisition, and Design Landscape Architect **Emily Proudfoot**.



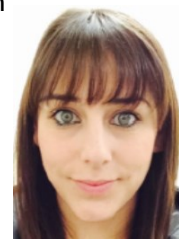
### New Team Members

**Deverton Cochrane** joined the Natural Areas and Urban Forestry team on January 26 as a park specialist 3 crew lead. Deverton previously worked for both the Bureau of Land Management and Sequoia National Park as a Biological Science Technician; the Washington Conservation Corps as a Crew Supervisor; and Northwest Youth Corps, holding several leadership positions. He brings many skills in leadership, trail building and maintenance, and natural area restoration work.



Two seasonal staff joined Park Operations as limited-duration team members on January 2 and will each work weekend days and one week day. Although their home crew is the west region team, weekend duties will take **Roger Smith** and **Audra McMartin** into all three regions of the park system. Roger worked as a seasonal employee with the River Road zone team. Audra started this season with Natural Areas and Urban Forestry. These limited-duration

assignments are scheduled to continue until January 2, 2016, but may be extended through part of 2016.



### Skinner Butte Columns Trail Repair Project Underway

The mandatory pre-bid meeting for a trail repair project above the columns climbing area at Skinner Butte Park was held on January 13 with eight contractors in attendance. The focus of this project is to widen, restore and improve the safety of two short trail sections:

Continued...

an existing trail to the top of the butte on the west side and an existing trail to the top of the columns, a popular rock climbing destination. Project bids were opened on February 3, and construction is expected to continue through mid to late May.

### **2014 Mitigation Bank Annual Report Nets Additional Credits**

The natural area restoration team staff completed and submitted the Coyote Prairie North Mitigation Bank Annual Report for 2014 to state and federal regulatory agencies. This annual report describes monitoring results and tracks how well the City's wetland mitigation banks are meeting their restoration performance criteria. The 84-acre wet prairie restoration at Coyote Prairie is flourishing, with native plant diversity and cover that exceed regulatory standards. With the submission of the report and success in meeting performance criteria, the City has requested the regulatory agencies release another 5.7 credits to the City's wetland mitigation bank.



# Maintenance

## Pavement Management Program

PWM Surface Operations Technical team recently completed the two year process of converting pavement management systems software. Using the new MicroPaver software, they produced the annual Pavement Management Report to update information and data regarding the City of Eugene's transportation system.

A Pavement Management System performs analysis of collected pavement condition data and reports on the current and projected conditions of the street system. In addition, it is used to evaluate the effectiveness of planning and funding priorities, and provides guidance in the capital project decision making process. The goal of the decision making process is to prevent pavement failures through judicious maintenance.

The City of Eugene implemented MicroPaver in 2014, moving away from Centerline, the pavement management system used by the City since 1987. City staff reviewed software programs and selected MicroPaver, a program recognized by American Public Works Association (APWA).

Since 1995, **Deborah Dickson** with the PWM Surface Operations Technical team has been the project manager overseeing the program, performing the data analysis, reporting, and overseeing of temporary staff in order to produce the annual report. She successfully converted the existing data into the new program taking over a year to complete the transition.

Eugene's transportation system is conservatively estimated to represent a \$500 million public asset. Currently, Public Works manages 1345 lane miles (538 centerline miles) of streets, and approximately 45 miles of off-street shared-use paths within the City limits.

Field inspections are conducted by pavement raters who walk each individual street evaluating the pavement surface for signs of distress. In 2014 all streets were inspected to establish a starting point. Staff will continue to inspect the entire street system for an additional three years for an accurate baseline in MicroPaver.

To keep pace with rehabilitation needs, the City established a local gas tax in 2003 for a Pavement Preservation Program (PPP). In 2007, it was reported that the anticipated backlog for rehabilitation needs would reach more than \$282 million by 2016. In 2008 a \$35.9 million, five-year bond measure was approved by voters and another five-year bond for \$43 million was approved by voters in 2012. Between these funding sources more than 126 streets in Eugene are identified to be repaired by 2018. Based on the 2012 ratings and reported in the 2013 Pavement Management Report the calculated backlog of repairs on improved asphalt streets was \$100 million. By the end of 2014 the current backlog has been calculated to be \$84 million.

# Engineering

## Wastewater Rehabilitation

The rehabilitation of approximately 22,000 feet of wastewater mains (8 inches to 36 inches in diameter) is being accomplished **without excavation**. The Contractor, Michels Corporation is installing “Cured In Place Pipe” liners (CIPP) through existing manholes. CIPP is a thin, resin-saturated tube inverted into a pipe and inflated with steam which hardens into a full strength pipe. Services to homes and businesses are reconnected from inside the liner using a robotic, cutting device.



Trenchless rehabilitation of wastewater mains reduces public disruptions by eliminating the need to excavate and replace pipes, and to repave the street. Installing a CIPP liner in 400 feet of sewer main and re-instating the service connections takes one day whereas excavating and replacing the same 400-foot segment, reconnecting the services and repaving the surface would take the better part of two weeks, costing nearly three times that of the trenchless method.

Beginning in 2015, there will be a pilot project to install liners in wastewater services that go to homes and businesses. As with the wastewater main rehabilitation, the need to excavate and replace pipes will be reduced, which results in lowers costs and fewer disruptions to the public.

The 2014 Wastewater Rehabilitation project began in December and will be completed by mid-February.

## Update on City's Standard Specification & Standard Drawings for Construction

Winter marks a busy time in Public Works Engineering updating the City's Standard Specifications and Standard Drawings for Construction. The City uses a joint specification developed through a partnership between the Oregon Department of Transportation and the Oregon Chapter of the American Public Works Association. Each year, a number of specifications committees including staff from Engineering, Maintenance and Parks and Open Space, review the specifications and agree on amendments based on experiences from the prior year and updates in policy and legal requirements. The Eugene amended specifications make up the City's Standard Specifications that are used for construction in the City's right of way. This year's amended specifications will take effect on February 2, 2015. The updated specifications may be obtained by downloading the .pdf files from the City's website [www.eugene-or.gov/standardspecs](http://www.eugene-or.gov/standardspecs).



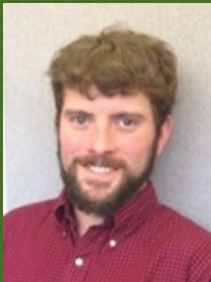
### **Staff News – Engineering Data Services Manager / Information Team Announcement**

**Dan Kaler** has accepted the position of Engineering Data Services Manager leading the Info Team in Public Works Engineering. His first day of work was Tuesday, January 27, 2015. Dan previously worked as a GIS Coordinator with Clark County, Washington. Dan had been with Clark County for 16 years. He is also an adjunct professor at Washington State University – Vancouver teaching “Arc GIS and Spatial Analysis.” Dan has a master’s degree in land resources from the University of Wisconsin and a bachelor’s degree in civil engineering from the University of Wyoming. He is a licensed civil engineer in the state of Washington.

Dan and his wife Kathy have two sons. Jacob attends Southern Oregon University and is a member of the basketball team. Andrew attends Idaho State University and is a member of the track team. Dan commutes several times a week from Vancouver, but he and Kathy plan on relocating to Eugene this summer.

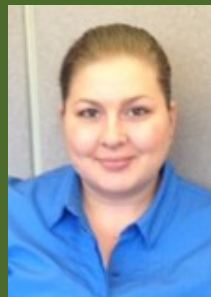
Dan may be reached at ext. 5216 and his office is located on the 4<sup>th</sup> Floor of the Wells Fargo Building next to the Plotter Room. Please help us welcome Dan and introduce yourself.

### **Staff News – Three Interns Join Transportation Planning Team**



**Alexis Biddle** joined the transportation options planning team in December to help design and implement an individualized marketing program for large employers. His first project is to create a program for the City of Eugene. Alexis will also be working on the City’s internal transportation plan focusing on the way we get to work and how we travel while at work.

After moving to Eugene in 2011 to attend the University of Oregon School Of Law, Alexis discovered his interest in transportation and urban design while working as a taxi driver. Now Alexis studies law and planning at the university and wants to work in the development of multimodal transportation policy. Alexis serves as a member of the EmX Steering Committee and is a board member of Better Eugene-Springfield Transit (BEST). When he isn’t in the library or office, Alexis enjoys backpacking, snowboarding, cycling, mountain biking and cooking.



**Claudia Denton** is a graduate student in the Oregon Leadership in Sustainability (OLIS) Program at the University of Oregon. She is interested in all things related to sustainable planning and is very excited to join the Transportation Options team. She is new to Oregon, and arrived in August with her husband and two dogs from (significantly drier) Albuquerque, New Mexico where she completed her Bachelor’s degree in Environmental Planning and Design. She’s from Sweden and loves to talk about it – feel free to ask. During her internship this spring she will be working on a variety of projects including a pedestrian/crosswalk safety education campaign and various transportation options programs.





**Nestor Guevara Delgado** is a current student in the Community and Regional Planning graduate program in the University of Oregon, a sports enthusiast, and an advocate for multi-modal transportation. His specific interests within transportation lie in promoting active transportation and the relationship between transit-oriented development and economic development. Nestor's past academic and professional experience have allowed him to develop skills with spreadsheets, mapping, and other transportation and planning techniques that he believes will prove useful to the Transportation Planning team. Nestor will work on updating the Pedestrian and Bicycle Master Plan map with new and proposed improvements within the network. He will also work on other projects that will allow him to use my research and design skills, as well as build upon what he has already learned. Outside of planning, Nestor's interests include pretty much any sport, running, and reading.

## Wastewater

Oregon law requires owners of wastewater systems to have their systems under responsible control and direction of certified operators. Trained and certified operators are necessary to ensure that the systems are managed and operated in a manner that fully protects public health and the environment. The certification of operators helps improve facility operation and ensure compliance, protect the public's investment in the facilities, and instill public confidence in the safety and certainty of services.

Four operators recently passed the State's highest level of certification exams to obtain Grade IV Wastewater Operating System

Certification. The operators include **Steve Barnhardt**, Operations Supervisor; **Matt Hays**, Lead Operator; **Contrail Smith**, Lead Operator; and **Scott Martin**, Wastewater Tech 2. Other operators who advanced in the State certification program during the past year are **Darrell Madsen** and **Barb Connelly** (Grade II), and **Robert Murray** (Grade I).

Steve Barnhardt, OPS



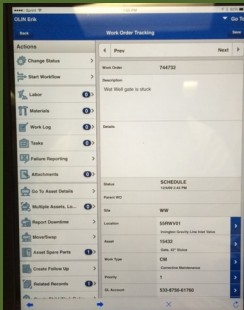
Matt Hays, Lead Op



Contrail Smith, Lead Op



Scott Martin, WW Tech 2



### Mobile Software Application Enhances Maintenance Management Program

A new software tool, EZMaxMobile, was implemented to enhance the use of Maximo, enterprise software, with a mobile application. EZMaxMobile allows the corrective and preventative work orders that in the past have been paper copies to be electronically assigned and viewed by staff in the field via iPads, saving thousands of sheets of paper per year. With this new system staff can document issues found and the resulting repairs, view attachments such as O&M manuals and drawings and attach pictures of equipment when disassembled for others to view in the future when making repairs all while in the field. Photos can also be taken if staff needs input on repairs and shared in the field. The software provides parts lists associated with the various types of equipment, which helps to streamline the procurement of parts. The EZMax software also allows staff to better document the time to perform the tasks or repairs and rolls those costs into the work order.

Staff can also utilize the Internet while in the field to look-up parts, manuals and search for more information and have access to their City email and the plant's online program, Mission, for monitoring pump stations. Overall the long term benefits of having this tool available for staff to use will be many. The learning curve has been minimal and staff has welcomed the transition from the old way of completing work orders to the new electronic version that they now have.

### New Operation Technician II

**Barb Connelly** has accepted the position of Wastewater Operations Technician. Barb has been with Wastewater for five years. She started in 2010 as a Facilities Maintenance Technician. Barb took advantage of the City's career development program with the support of her supervisor and worked her way into the position of Sampling Technician. As Barb's career goals changed, she set her sights on becoming an Operations Technician. Barb talked with Operators, took correspondence courses, and passed the Oregon Wastewater Class II Operator Certification Test. Barb is a great example of how putting forth the extra effort can pay off in the end. When Barb is not furthering her career in Public Works she enjoys hiking and camping in the great Oregon outdoors. Barb also likes to support local farmers and 'of course' the Oregon Duck Football team.



## Administration

### Staff Pitch in to Make 'Good Earth' Home Show Booth a Success

The Good Earth Home, Garden and Living Show had its highest ever attendance in the show's 10 year history. Staff working at the city's stormwater booth reported frequent lines with show visitors waiting for their turn to spin the question and answer wheel – testing their knowledge about ways to keep our waterways healthy or other water factoids. Those who participated were signed up for a drawing for one of several gift baskets. The booth featured the many ways that the stormwater program benefits children, pets and the environment. While there are several well-known ways that Public Works staff protects local waterways—for example collecting leaves or sweeping streets—visitors also learned about many less visible services. There was also sign up available for our Raindrop to Rivers e-newsletter and our canines for clean water program.



Staffing help by public works employees was particularly valuable to those who stopped by with questions. Informing and educating the rest of our community truly is a collaborative effort. Thanks to following people for taking time to work at the booth: **Therese Walch, Rachel Burr, Jon Wilson, Josh Richmond, Carla Spangler, Angie Tennant, Eric Jones, Bill Buterbaugh and Jeffrey Flowers**. Plus, Kathy Sweely and Brenda Cervantes, whom we were able to hire through our temp agency, had valuable watershed knowledge to share.

# Airport



## Airport Welcomes New Staff Members

Eugene Airport welcomed four new airport workers in January. Pictured clockwise from the top, left are: **Gary Stott**, **Curtis Oliver**, **James Boyles** and **Anthony Miller**.



**Stott** has been hired as an Airport Worker 2-3 and brings more than 20 years of HVAC experience to the table. When asked what he likes the most about working here at the airport, Stott said, "The people."

**Oliver** has worked for ground handling companies based at Eugene Airport including two years at Delta Global Services and three at Sky West Airlines. He is currently a Temporary fill-in at the terminal which keeps him busy when he is not working as a Public Safety Officer at Lane Community College.

**Boyles** has accepted a Career Development 4 position, having most recently worked for the Wastewater department. His goal is to learn as much as he can during this six month position. He has already determined that he would like to be out at the airport permanently after completing the program.

**Miller** fills the second Airport Worker 2-3 position and brings an array of airport experience to EUG. Most recently Miller worked for Seattle-Tacoma International Airport. He loves aviation so much that even when he isn't at work, he plane spots as a hobby.

## Terminal Expansion Project (TEX) Gaining Momentum

The TEX project at Eugene Airport is well underway and many of the changes are now visible to the traveling public. The addition to the south, which includes the expanded bag claim, is now framed and giant beams are being placed. Roofing and walls are expected in the coming month which will pave the way for removal of the current south wall.



Concrete has been poured in the new B Gate hold room and soon steel support posts to hold the beams and roof will be installed. Once this is accomplished, the current B Gate south wall will be removed.

## New Art Exhibit Featuring Works Depicting Lane County

The first quarter of 2015 features a collection of artwork from Springfield's Emerald Art Center & Gallery. "Colors of Lane County" showcases all local artists with a variety of mediums including photography, bronze, cloth art dolls, felted wool murals and paintings ranging from abstracts, landscapes and still life.



The new exhibit will be on display in the gallery at the airport for approximately three months and will be the last exhibition in the gallery's current space as the airport will turn the space over as part of the terminal expansion project.